

IGNITE 2023



A DAILY NEWSLETTER

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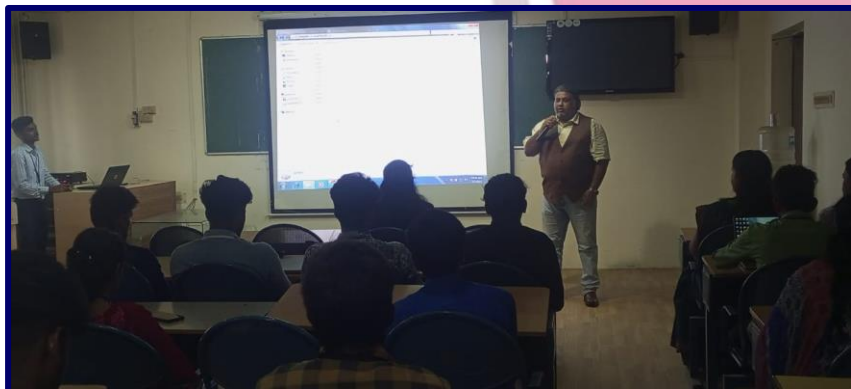
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BUSINESS INCUBATION

The **Entrepreneurship Development Cell** of Agni College of Technology has initiated the **Business Incubation Centre**. Through which 35 shortlisted Projects were recommended for project proposals by the Industrial Experts Ms. Vani Suriaprakash and Mr. Mrithun Jayan, Founder and Co-Founder of VR The Coach on 2nd May 2023.

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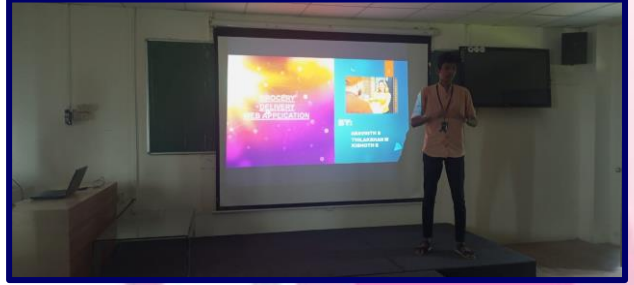
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GALLERY



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STUDENT ACHIEVEMENT



Work hard in silence, let your success be your noise

M. Sanjay, III year student, Department of Mechanical Engineering has participated and won **first prize** in **CAD MODELLING** on 28th April 2023 conducted by Peri Institute of Technology, Chennai.

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STUDENT – FACULTY ACHIEVEMENT



International Journal of Research Publication and Reviews, Vol 4, no 4, pp 4932-4937 April 2023



International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Text-To-Image Generation Using AI

Pavithra V¹, Rosy S¹, Srinishanthini R B¹, Prinslin L²

¹Computer Science and Engineering, Agni College of Technology

²Assistant Professor, Computer Science, and Engineering Department, Agni College of Technology

ABSTRACT

This model is suggested to produce the photos that are provided in the text. This has the power to turn abstract images into actual ones. DALL-E is necessary for the conversion. Making artistic, realism-based graphics from the description will be enjoyable. Kotlin and Java were used to create this Android application project. For this project, we employed a natural language description prompt. Through prompts, it generates visuals. This will help incorporate our many ideas and thoughts into the diagrammatic presentation. DALL-E can be used for business endeavors such as advertising, publishing, selling, etc. It will display images of our choice, resulting in anthropomorphic imagery and the collaboration of unconnected thoughts. It is viable and produces believable items. We can turn our inventive thoughts into reality using this Android application project. It is user-friendly software with no visual problems. And we can't discover this fictitious picture generator on any search engine. This Android application project will generate an image in whatever size you want. And it does not affect image quality. A picture's quality size will be 256*256, 512*12, and 1024*1024. Based on the quality of our network, we may select a quality size. We must first ensure that the network infrastructure is in place before we can use this application.

Keywords: Diffusion Models, Energy-based Models, Visual generation.

Pavithra V, Rosy S & Srinishanthini R B, IV year students Department of Computer Science and Engineering have published a paper on **Text-To-Image Generation Using AI** under the guidance of Mrs. Prinslin L, AP in the International Journal of Research Publication and Reviews, a SJIF Indexed Journal, Vol 4, No 4, pp 4932-4937, ISSN 2582-7421 in the month of April 2023

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INTERNATIONAL JOURNAL OF PROGRESSIVE
RESEARCH IN ENGINEERING MANAGEMENT
AND SCIENCE (IJPREMS)

Vol. 03, Issue 04, April 2023, pp : 476-482

e-ISSN :
2583-1062

Impact
Factor :
5.725

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PROGNOSIS OF STROKES USING MACHINE LEARNING

Divya K¹, Evangeline Oswald E², Gomathy K³, Jancy Rani K⁴

^{1,2,3}Student, Computer Science and Engineering, Agni College of Technology

⁴Assistant Professor, Computer Science and Engineering Department, Agni College of Technology

ABSTRACT

The Interruption or reduction of the blood supply to the brain causes a stroke. A stroke is a condition where there is insufficient blood supply to the brain, which causes cell death. Today, it is the main cause of death in the entire world. Examining the affected individuals has shown a number of risk variables that are thought to be connected to the stroke's origin. Numerous studies have been conducted for the prediction and classification of stroke disorders using these risk variables. Machine learning and data mining methods are the foundation of the majority of the models. The stroke deprives the brain of oxygen and nutrients, perhaps leading to the death of brain cells. Numerous studies have been conducted to compare the effectiveness of predictive data mining methods in the prediction of various diseases. On the Cardiovascular Health Study dataset, we evaluate various approaches for predicting stroke with our algorithm in this article. Here, the principal component analysis algorithm is used to reduce the dimension, the decision tree algorithm is used to pick the features, and random forest algorithm is used to build a classification model. Our work offers the best predictive model for the stroke disease with 94.7% accuracy after analyzing and comparing classification efficiency with other approaches and variation models.

Key words: CSV Dataset, Artificial Intelligence, and Stroke.



Divya. K, Evangeline Oswald and Gomathy. K, IV year student, Department of Computer Science and Engineering have published a paper on **Prognosis of strokes using Machine Learning** under the guidance of Ms. Jancy Rani. K, AP in the International Journal, Progressive Research in Engineering, Management and Science, Volume 03, Issue 04, April 2023 on 17th April 2023.

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STUDENT PARTICIPATION



Arifa Parveen Moulana S Y, II year student, Department of Computer Science and Engineering has participated in **IBC Media ALT Hack** organized by Naan Mudhalvan held from 24th to 31st March 2023.

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STUDENT PARTICIPATION



Sachin. L, III year student, Department of Information Technology has participated in **IBC Media's ALT HACK** at Anna University, Chennai from 24th to 31st March 2023.

STUDENT PARTICIPATION



Shakthi Sree. R, Sharan Shriram. V, Sree Ashika. A and Kirupa. D, II year students, Department of Artificial Intelligence and Data Science have participated in the **Connexions** event in Voltronix 23 organized by Hindustan Institute of Science and Technology, Chennai on 29th April 2023.

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STUDENT PARTICIPATION



Sneha Sree. S and Kesavapriya. P, II year students, Department of Artificial Intelligence and Data Science have participated in the **Treasure Hunt** event in Voltronix 23 organized by Hindustan Institute of Science and Technology, Chennai on 29th April 2023.

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FACULTY ACHIEVEMENT

Analysis of EMI Mitigation Techniques in High Speed Printed Circuit Board

Publisher: IEEE

Cite This

PDF

M. Anandan ; L. P. Sajitha ; S. Geerthik [All Authors](#)



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Abstract

Document Sections

- I. Introduction
- II. Radiation Fields From Pcb Traces
- III. Inter Digital Capacitor
- IV. Hybrid Interdigitated Defected Ground

Abstract:

To serve the numerous services, today's wireless communication devices require microwave network systems with multiband and multifunctional capabilities. A growing number of microwave circuits and parts that can handle several frequency bands and larger bandwidths are needed to support the unprecedented systems. The issues in EMI/EMC have grown as a result of research and advances in contemporary wireless network communication equipment. Generally speaking, there are several ways to reduce different EMI issues. Therefore, the necessary tunable and downsized components are required to make these systems smaller, lighter, and less expensive. Most studies on emission measurements have been done in the time domain recently and one of the widely used techniques is the creation of EMI band pass filters. This article presents band pass filters with HIDD (Hybrid Inter Digital Defected Ground Structure). Additionally, a number of uses for the hybrid S-parameters are provided by fusing Agilent ADS circuit tool and full-wave EM solvers. To provide a complete EM response of the filter construction, 3D EM

More Like This

[Design of band-pass filter for terahertz communication systems](#)
2020 13th UK-Europe-China Workshop on Millimetre-Waves and Terahertz Technologies (UCMMT)
Published: 2020

[Low Profile Metamaterial Band-Pass Filter Loaded with 4-Turn Complementary Spiral Resonator for WPT Applications](#)
2020 27th IEEE International Conference on Microwave and Millimetre Wave Technology (ICMMMT)
Published: 2020

Dr. S. Geerthik, Head, Department of Information Technology has presented a paper titled **Analysis of EMI Mitigation Techniques in High Speed Printed Circuit Board** in an International Conference for Innovation in Technology (INOCON) - 2023 on 1st May 2023 and the paper is added to IEEE explore, Conference Proceedings.

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FACULTY PARTICIPATION



CERTIFICATE OF PARTICIPATION

this Certificate is presented to

Dr. Sharmila L

a faculty of Agni College of Technology,

For attending the webinar on the topic '**Getting Started with Internet of Things**'
conducted by **Mr. Pranav Pai Vernekar, Co-Founder and CEO**
of the award-winning Internet of Things and Machine Learning Platform - Bolt IoT
a part of the academia connect program on **11/04/2023**.

Unique registration number: **DRY9M4J1**

To verify the authenticity of this certificate email the above number to support@boltiot.com

Pranav Vernekar
CO-FOUNDER AND CEO



Dr. L. Sharmila, Professor and Head, Department of Computer Science and Engineering has attended a **Webinar on Getting started with Internet of Things** organized by Mr. Pranav Pal Vernekar, Co-founder and CEO of award winning Internet of Things and Machine learning Platform – Bolt to part of academic connect Program on 11th April 2023.

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FACULTY PARTICIPATION



Ms. Umadevi Venkat, Assistant Professor, Department of Computer Science and Engineering has attended the **Webinar** on **Getting started with Internet of things** organized by Mr. Pranav Pal Vernekar, Co-founder and CEO of award winning Internet of Things and Machine learning Platform – Bolt to part of academic connect Program on 11th April 2023.

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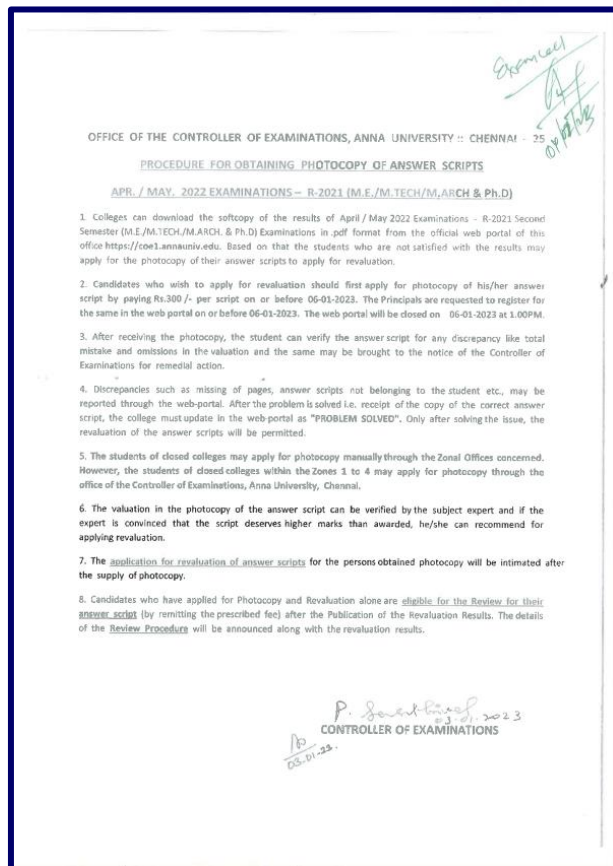


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OFFICE OF EXAM CELL



The college has received a circular from COE, Anna University, Chennai regarding the last day for applying the photocopy of the answer scripts for PG (I year, I Semester). Last date for applying is 3rd May 2023.

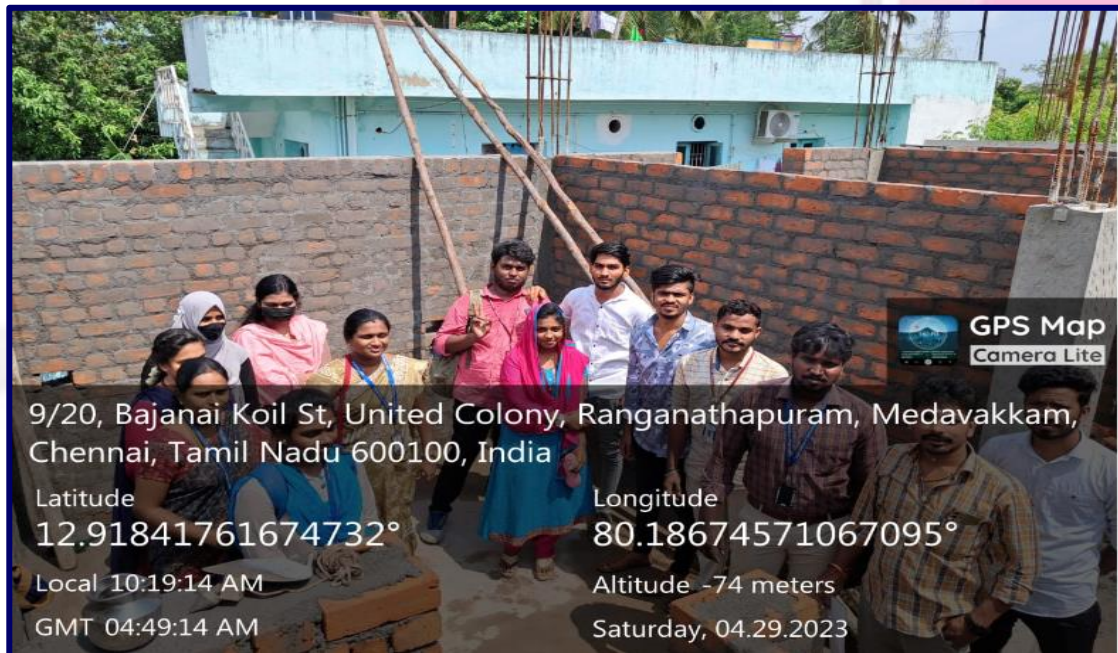
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INDUSTRIAL SITE VISIT**Knowledge is of no value unless you put it into practice**

The II & III students from the department of Civil Engineering have visited a residential construction site at Medavakkam, Chennai to understand the working procedure in a construction site and also to enhance their practical knowledge and skills on 29th April 2023. Students were allowed to observe the functioning of each construction activities and their queries were also answered by the site engineer during the visit. Mrs. E. Vinodha & Mrs. V. Indhumathi, Assistant Professors have accompanied the students.

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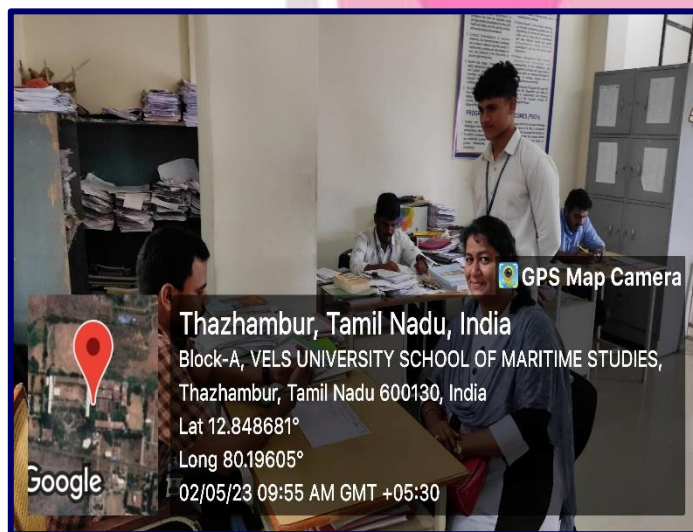
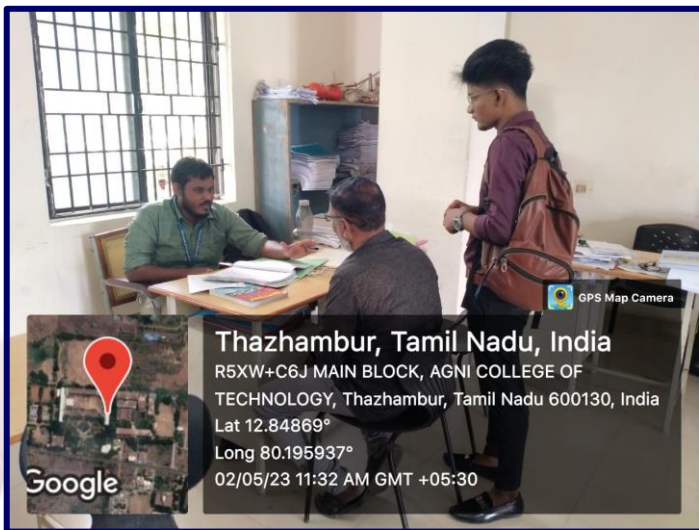
MINI PROTOTYPE



The II year students, Department of Chemical Engineering have presented their models in the subject **Mechanical Operations**. Mr. K. Vikram, Assistant Professor offered his suggestions to improve their models for the real time applications on 2nd May 2023.

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PARENT - TEACHER MEET



E. Dinesh and J. Immanuel Joshua, III year students, Department of Aerospace Engineering along with their parents have attended the parent teacher meeting on 2nd May 2023. The Class In-charge and Subject handling faculty members have interacted with the parents about their wards.

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CLASS COMMITTEE MEETING



The Third Class Committee Meeting was conducted for the final year students, Department of Information Technology on 2nd May 2023. The discussion was about discipline, academics, syllabus coverage, attendance, extra curricular activities, placement, offer letter day, sports day, annual day and upcoming model examination.

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